Drop	Soccer	Volley	Tennis	Golf	Wiffle	Lacrosse	Kick	Racquet
20 cm	8	10	11	15	12	11	8	12
40 cm	23	20	20	29	19	27	19	26
60 cm	38	40	34	50	27	41	39	41
80 cm	48	60	46	65	35	57	62	50
100 cm	70	80	59	83	53	71	73	64

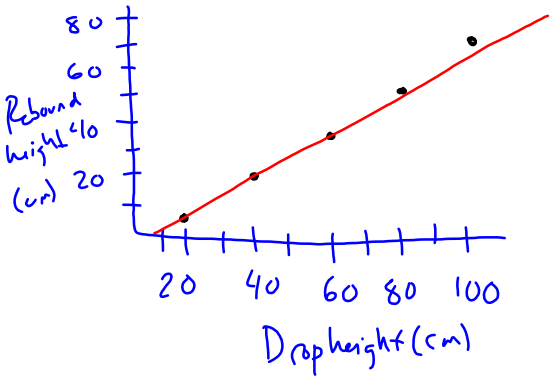
Graphing:

Soccer Ball

slope point 1 ordered pairs

(20, 8) (40, 23) (60, 38) (80, 48)

(100, 70) slope point 2



$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

$$= \frac{\text{rebound height}}{\text{drop height}}$$

$$= \frac{70\text{ cm} - 8\text{ cm}}{100\text{ cm} - 20\text{ cm}}$$

$$= \frac{62\text{ cm}}{80\text{ cm}}$$

$$= 0.775$$

THIS IS EFFICIENCY!

* how well the ball bounces.

Efficiency for each type:

Soccer = 0.775 4

Volley = 0.875 1

Tennis = 0.600 7

Golf = 0.850 2

Probably backwards due to data collection

Wiffle = 0.513 8

Lacrosse = 0.750 5

Kick = 0.813 3

Racquet = 0.650 6